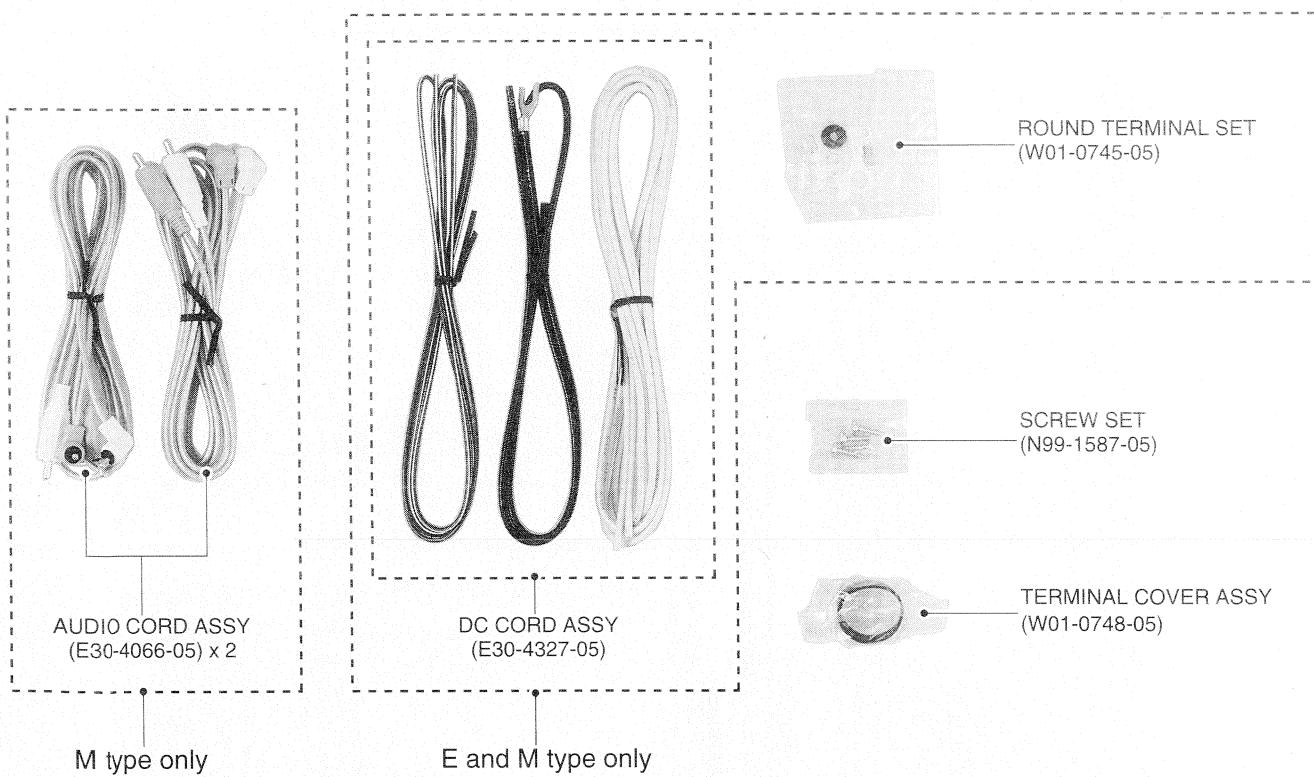
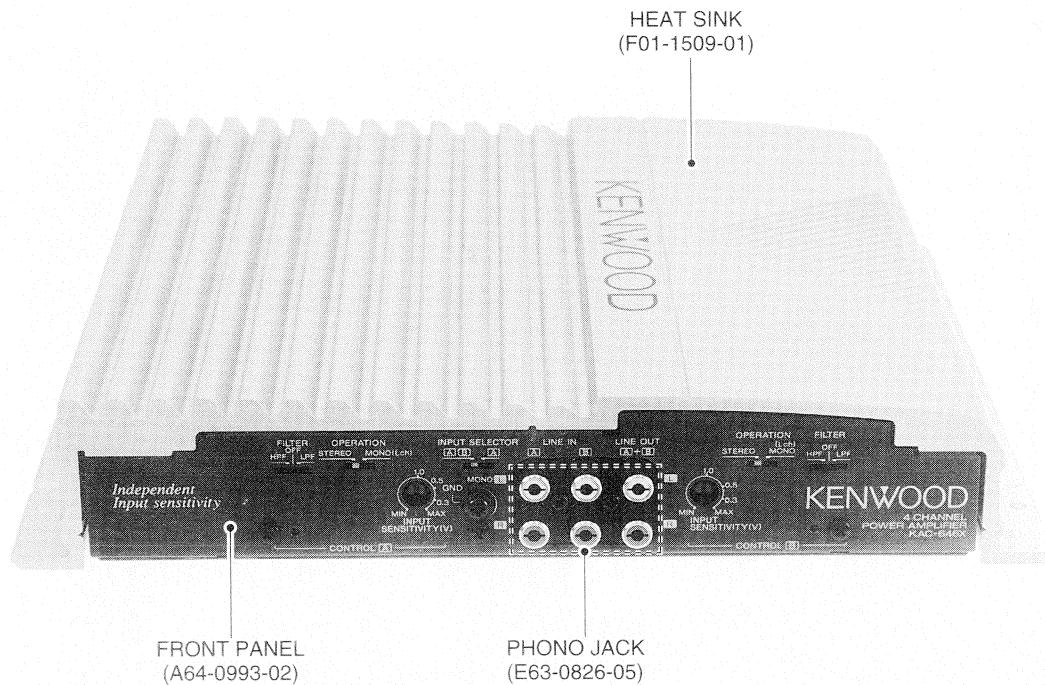


POWER AMPLIFIER
KAC-646X
SERVICE MANUAL

KENWOOD

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B51-7154-00 (K) 3621

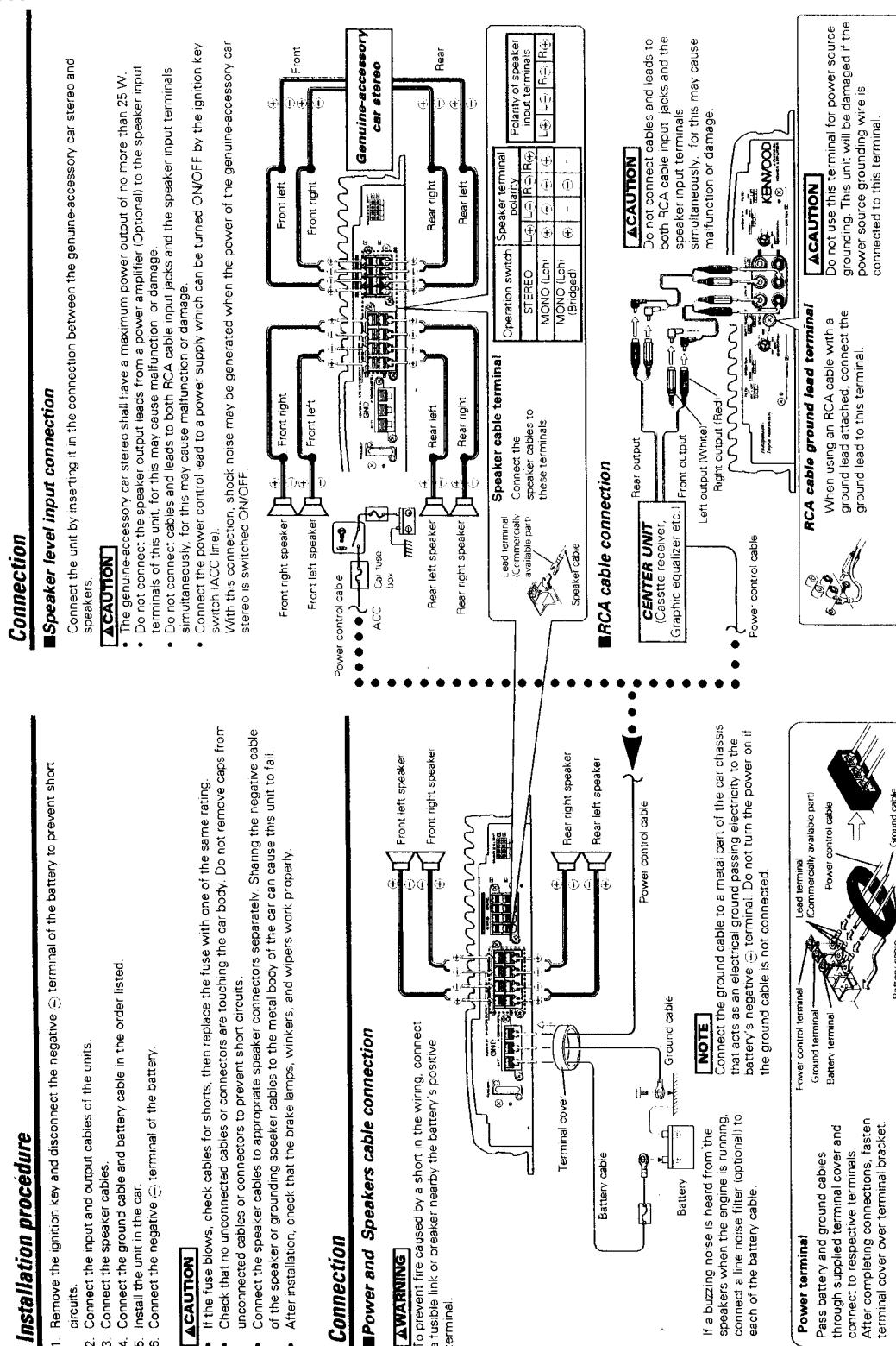


CONTENTS / CONNECTION

CONTENTS

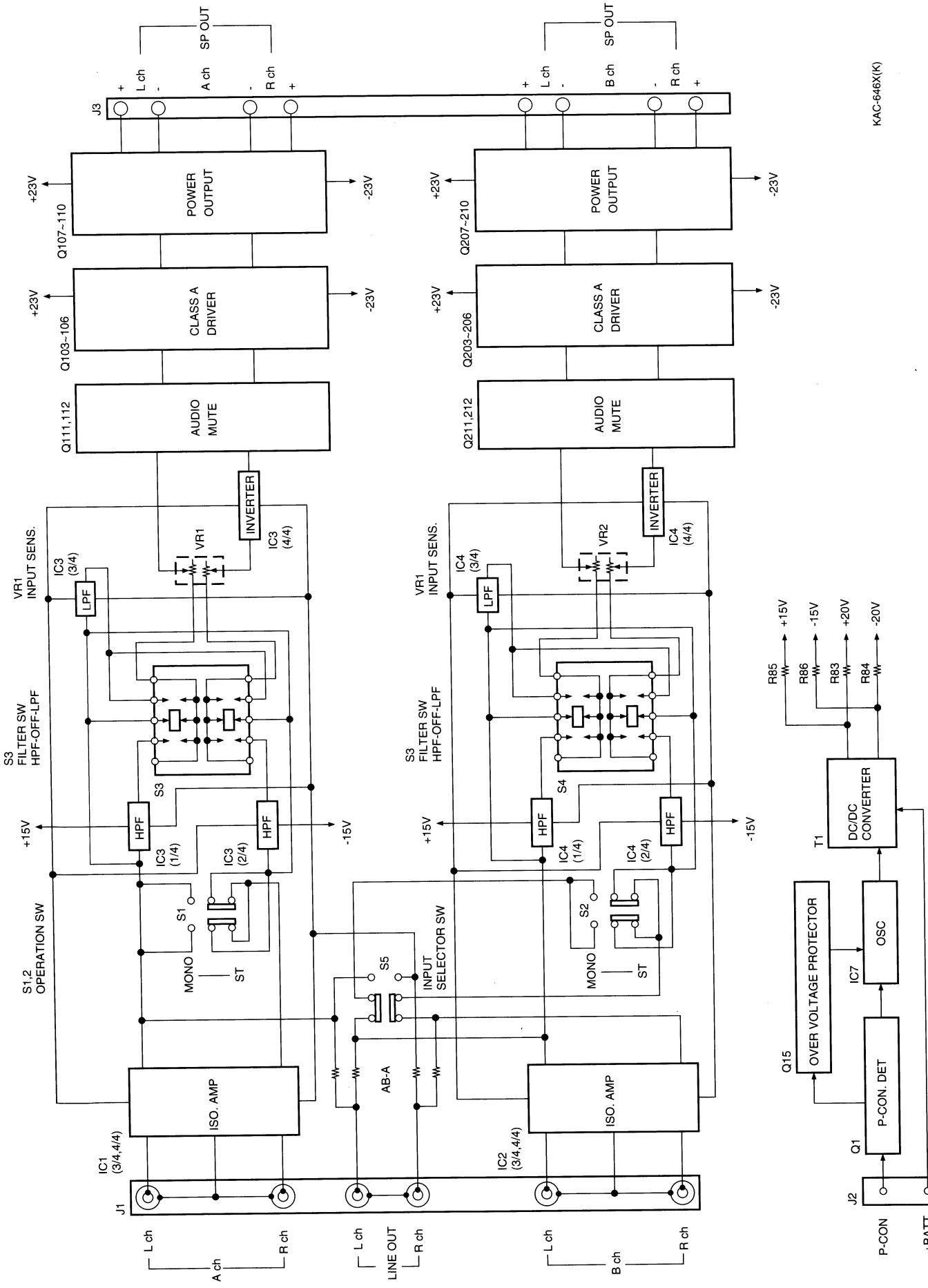
CONNECTION	2	PC BOARD	7
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ADJUSTMENT POINT VIEW	6	Back cover	

CONNECTION



KAC-646X

BLOCK DIAGRAM



KAC-646X

COMPONENTS DESCRIPTION

AUDIO UNIT (X09-5220-10)

Ref. No.	Use / Function	Operation / Condition
Q9~12	OVER CURRENT PROTECTOR	Stops IC7 working when over current runs into the base terminal.
Q15	OVER VOLTAGE PROTECTOR	Stops IC7 working when the power supply voltage is over 17V.

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ADJUSTMENT

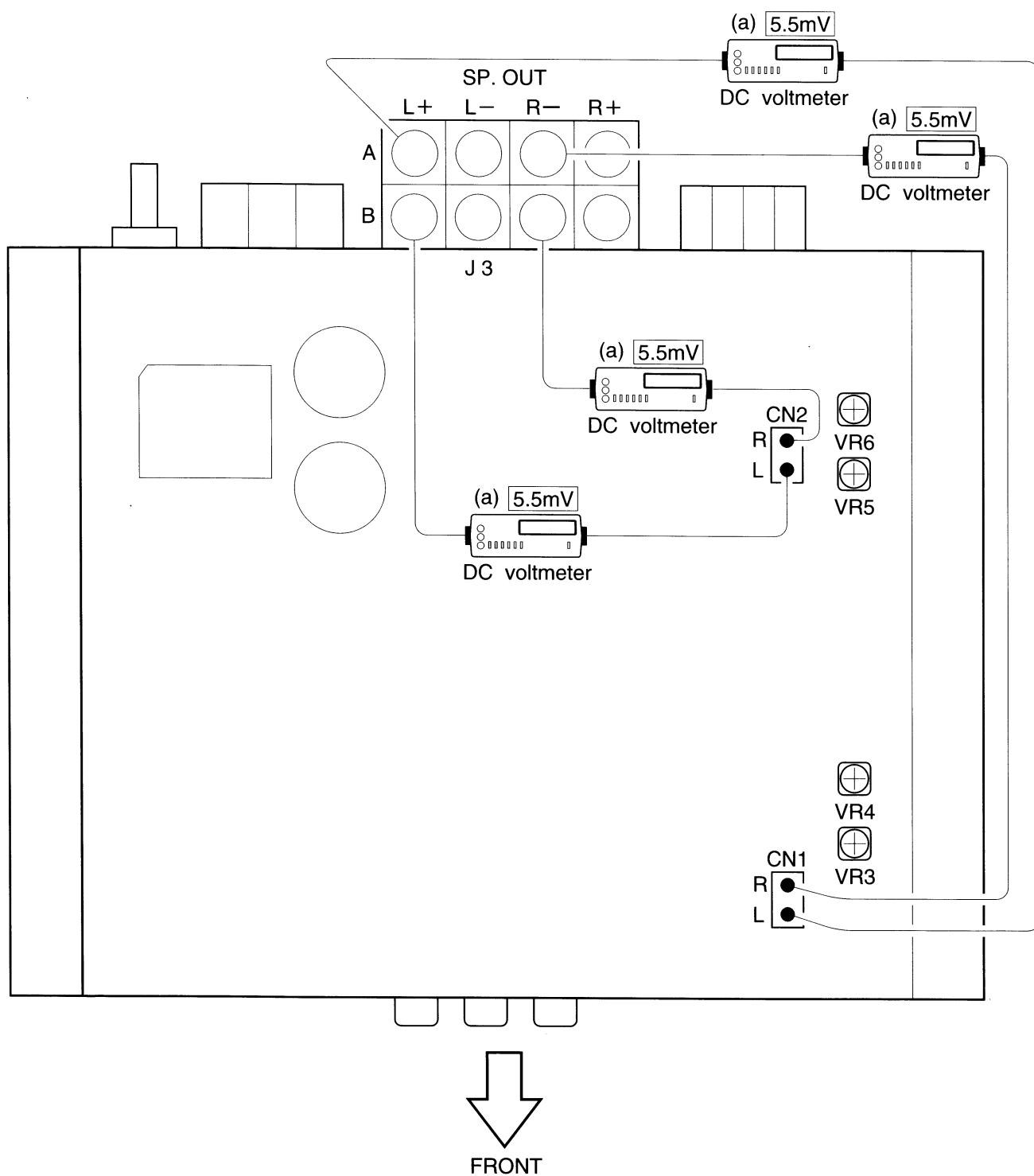
No.	Item	Input Setting	Output Setting	Amp. Setting	Adjustment Point	Adjustment Method	Fig.
Connect the cassette receiver, etc.							
1	IDLE CURRENT	-	Connect a DC voltmeter between CN1/CN2 and J3(SP.OUT, L+/R-)	VOLUME : 0	(A) VR3(Lch) VR4(Rch) (B) VR5(Lch) VR6(Rch)	5.5mV	(a)

EINSTELLUNGEN

Nr.	Gegenstand	Eingangseinstellung	Ausgangseinstellung	Verstaerkereinstellung	Einstellpunkt	Einstellmethode	Abb.
Das Kassettenraet, den Empfaenger usw. anschliessen.							
1	IDLE CURRENT	-	Ein Gleichstrom-Voltmeter zwischen CN1/CN2 und J3(SP.OUT, L+/R-)	VOLUM : 0	(A) VR3(Lch) VR4(Rch) (B) VR5(Lch) VR6(Rch)	5.5mV	(a)

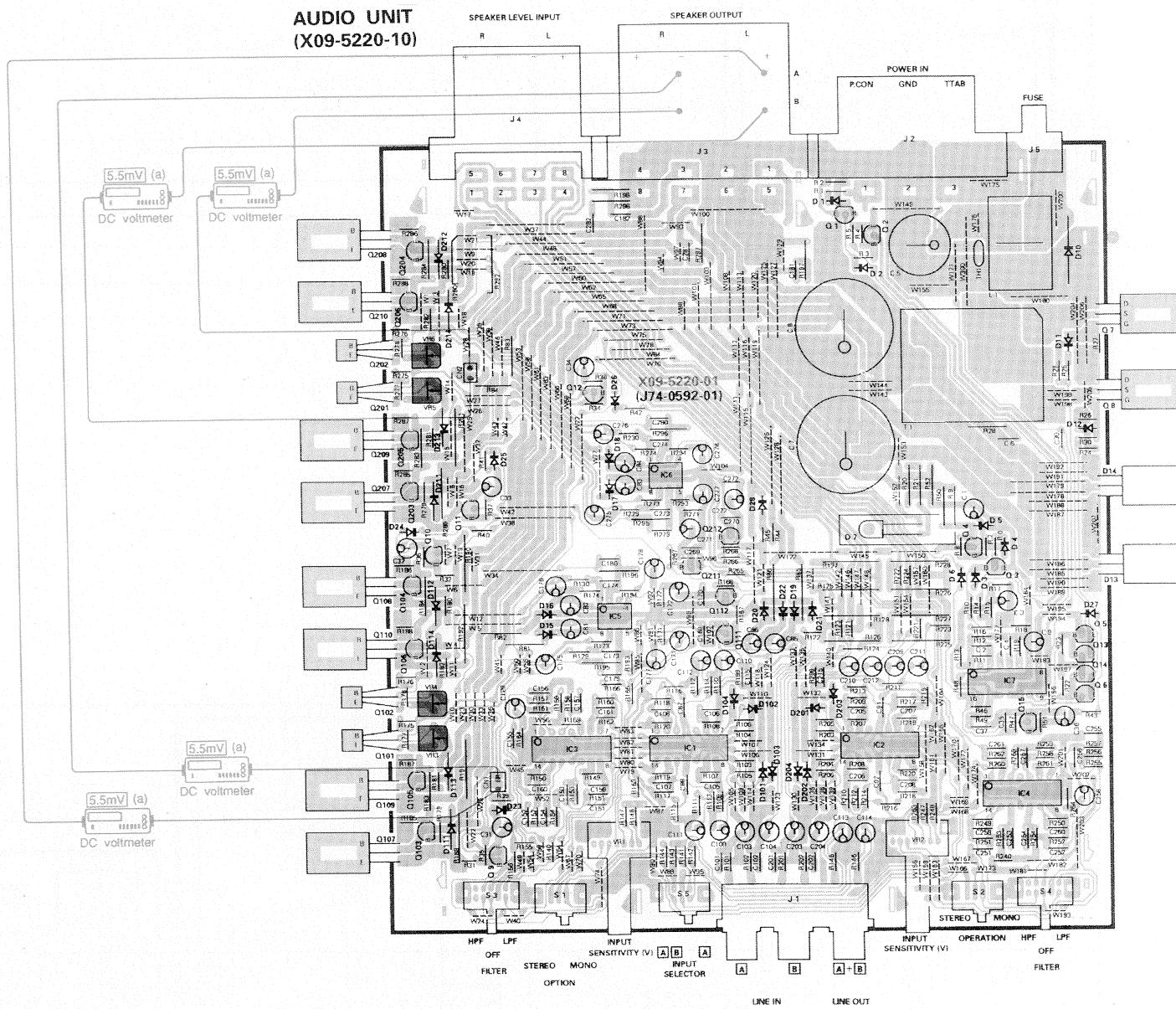
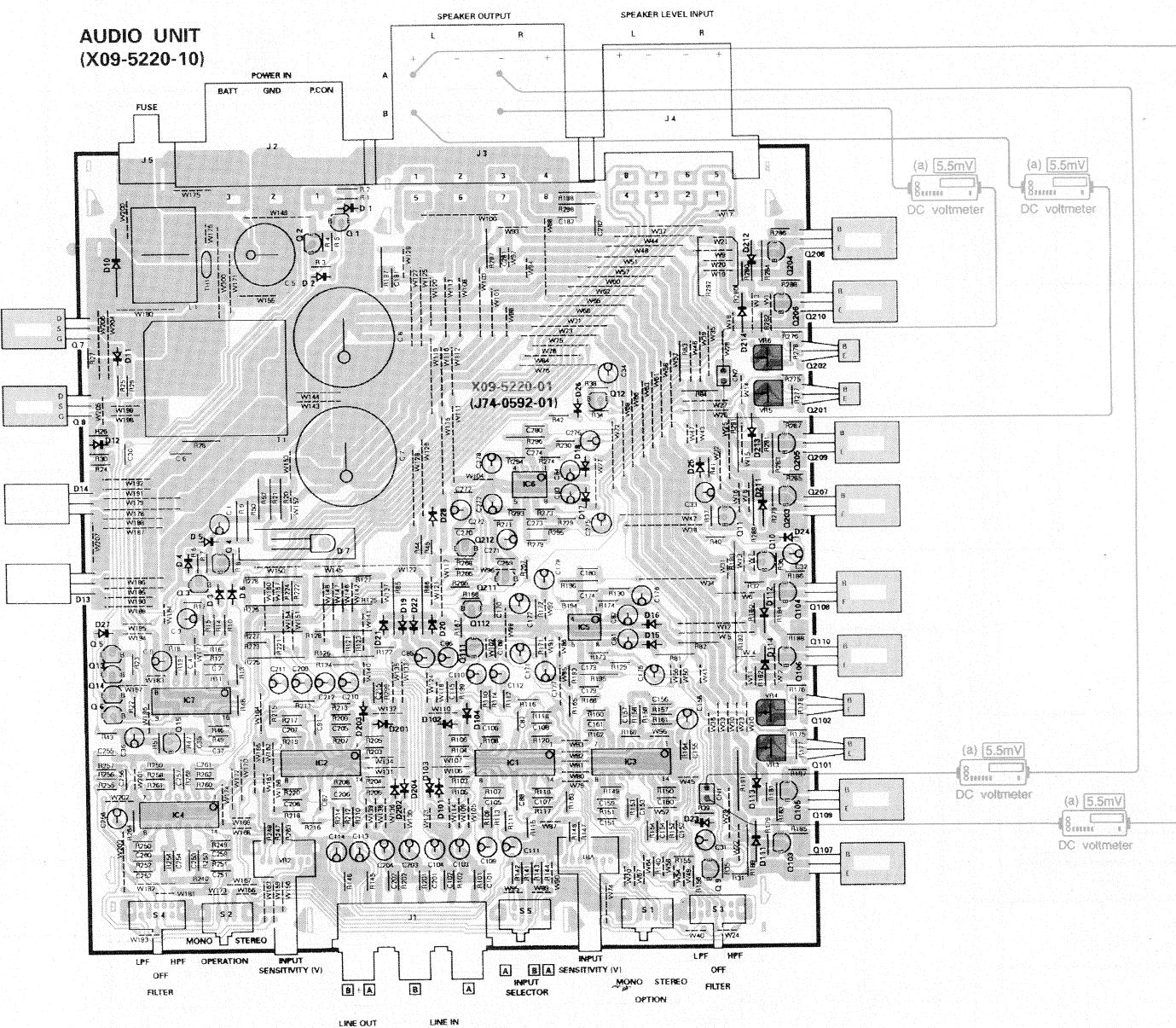
KAC-646X

ADJUSTMENT POINT VIEW



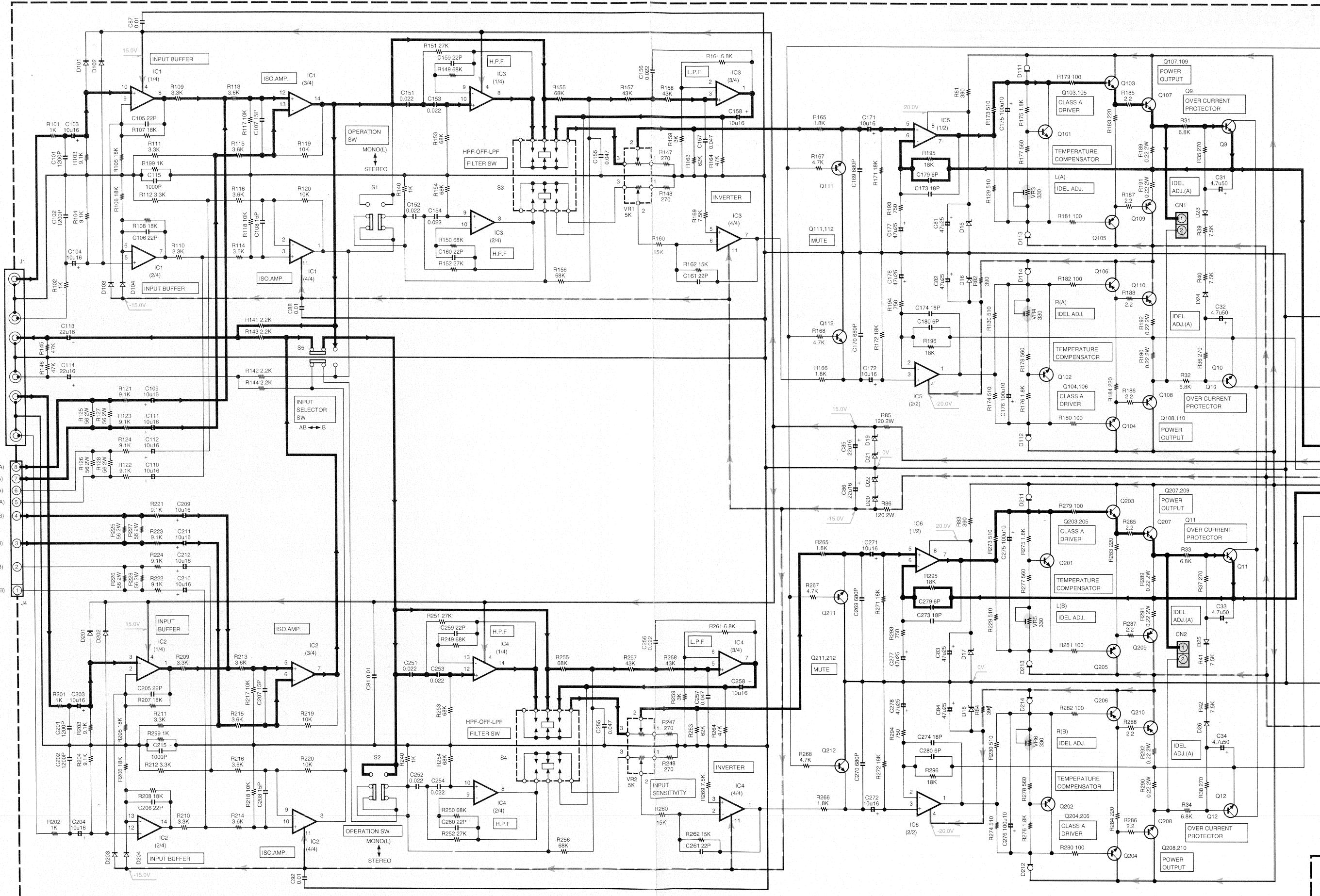
PC BOARD (Component side view)

(Foil side view)



Refer to the schematic diagram for the values of resistors and capacitors.

AUDIO UNIT (X09-5220-10)



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

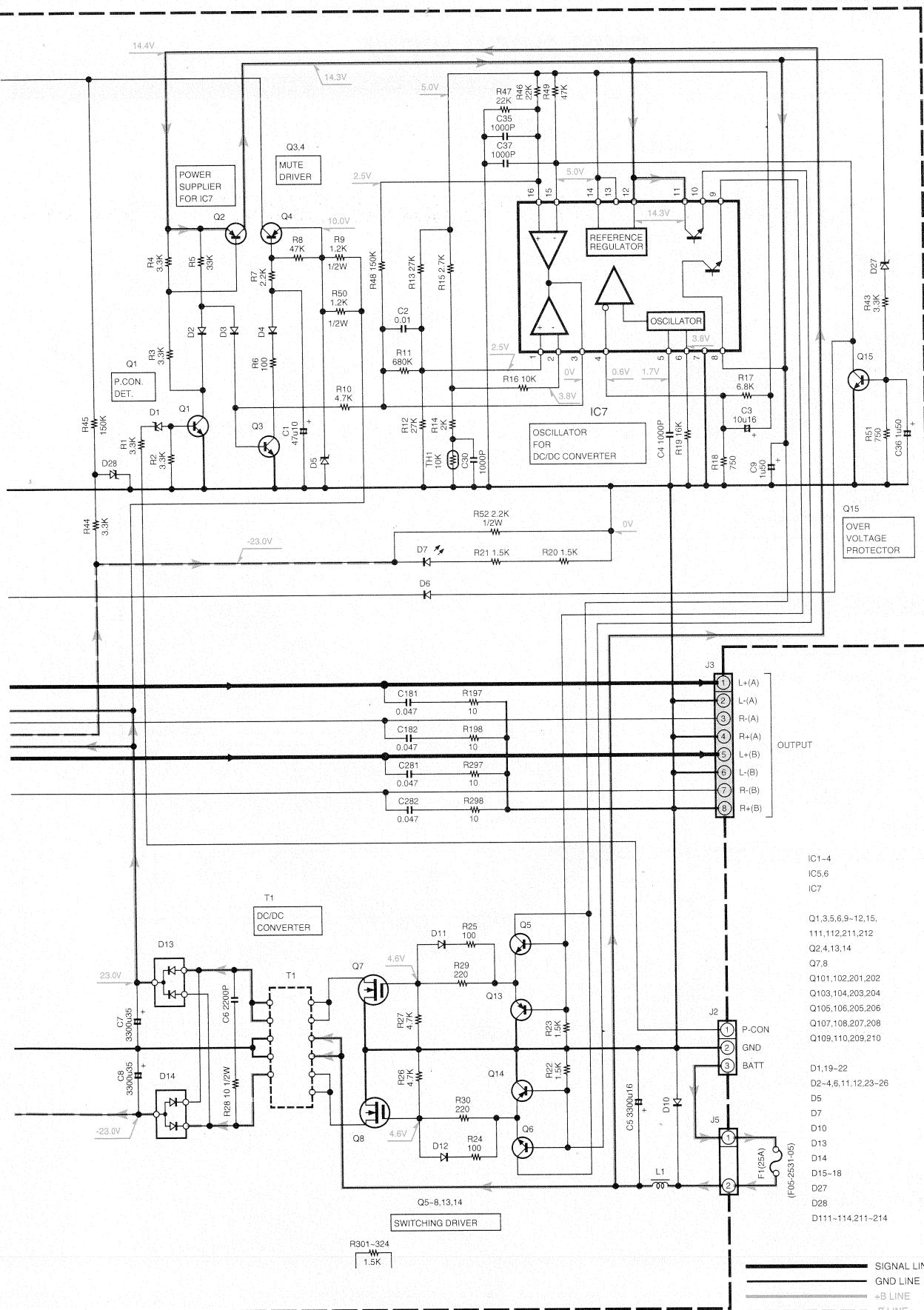
K

L

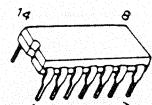
M

N

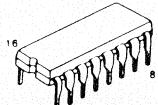
O

2SA1725*B
2SC4511*B

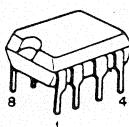
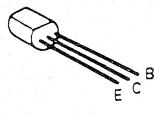
UPC4574C



UPC494C



M5219P

2SA733(A)
2SA817A
2SC1627A
2SC945(A)

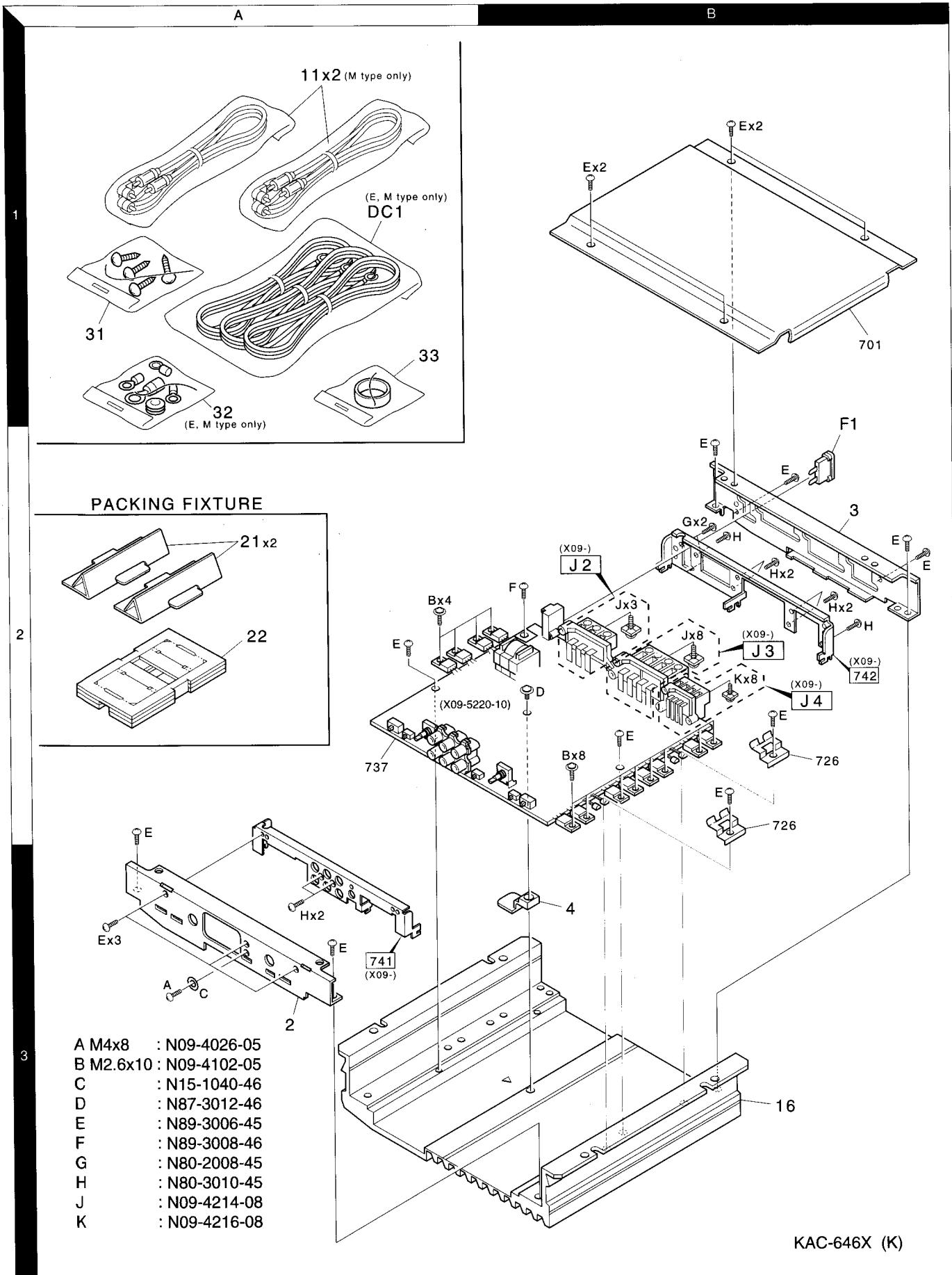
KAC-646X(K)

IC1-4	: UPC4574C
IC5,6	: M5219P
IC7	: UPC494C
Q1,3,5,6,9-12,15, 111,112,211,212	: 2SC945(A)(Q,P)
Q2,4,13,14	: 2SA733(A)(Q,P)
Q7,8	: MTAJ50N05HDLFK
Q101,102,201,202	: 2SC945(A)(Q)
Q103,104,203,204	: 2SC1627A
Q105,106,205,206	: 2SC4511A
Q107,108,207,208	: 2SC1725B
Q109,110,209,210	: 2SA1725B
D1,19-22	: RD7.5JS(B)
D2-4,8,11,12,23-26	: MA165
D5	: RD10JS(B)
D7	: B30-1460-05
D10	: RM4ZLF-J1
D13	: FMU22S'A
D14	: FMU22R'A
D15-18	: RD20JS(B)
D27	: RD15JS(B)
D28	: RD5.1JS(B)
D111-114,211-214	: E-562

SIGNAL LINE
GND LINE
+B LINE
-B LINE

KAC-646X

EXPLODED VIEW



KAC-646X (K)

Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

*New Parts

Parts without **Part No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

(X09-5220-10)

Refer. No.	A d d	N e w	Parts No.	Description	Desti- nation	Refer. No.	A d d	N e w	Parts No.	Description	Desti- nation
KAC-646X											
2	3A	*	A64-0993-02	FRONT PANEL		C87,88			CK45FF1H103Z	CERAMIC	0.010UF Z
3	2B	*	A84-0117-02	REAR PANEL		C91,92			CK45FF1H103Z	CERAMIC	0.010UF Z
4	3B		B19-1061-03	LIGHTING BOARD		C101,102			CK45FB1H122K	CERAMIC	1200PF K
-			B46-0100-50	WARRANTY CARD		C103,104			CE04DW1C100M	ELECTRO	10UF 16WV
-		*	B64-0898-00	INST.MANUAL (ENGLISH,FRENCH)	K	C105,106			CC45FSL1H220J	CERAMIC	22PF J
-		*	B64-0899-00	INST.MANUAL (SPANISH)	K	C107,108			CC45FCH1H150J	CERAMIC	15PF J
-		*	B64-0900-00	INST.MANUAL (ENGLISH,FRENCH)	E	C109-112			CE04DW1C100M	ELECTRO	10UF 16WV
-		*	B64-0901-00	INST.MANUAL (GERMAN,DUTCH)	E	C113,114			CE04DW1C220M	ELECTRO	22UF 16WV
-		*	B64-0902-00	INST.MANUAL (ITALIAN,SPANISH)	E	C115			CF92FV1H102J	MF-C	1000PF J
-		*	B64-0903-00	INST.MANUAL (PORTUGUESE)	E	C151-154			CF92FV1H223J	MF-C	0.022UF J
-		*	B64-0904-00	INST.MANUAL (ENGLISH,FRENCH)	M	C155			CF92FV1H473J	MF-C	0.047UF J
-		*	B64-0905-00	INST.MANUAL (SPANISH)	M	C156			CF92FV1H223J	MF-C	0.022UF J
11	1A		E30-4066-05	AUDIO CORD ASSY	M	C157			CF92FV1H473J	MF-C	0.047UF J
DC1	1A		E30-4327-05	DC CORD ASSY (C.C.)	EM	C158			CE04DW1C100M	ELECTRO	10UF 16WV
16	3B	*	F01-1509-01	HEAT SINK		C159-161			CC45FSL1H220J	CERAMIC	22PF J
F1	1B		F05-2531-05	FUSE (25A, BLADE TYPE)		C169,170			CK45FB1H681K	CERAMIC	680PF K
21	2A		H12-2606-14	PACKING FIXTURE (x2)		C171,172			CE04DW1C100M	ELECTRO	10UF 16WV
22	2A	*	H12-2609-03	PACKING FIXTURE (x1)		C173,174			CC45FSL1H180J	CERAMIC	18PF J
-			H25-0321-04	PROTECTION BAG (600x315x0.03)		C175,176			CE04DW1A101M	ELECTRO	100UF 10WV
-			H25-0336-04	PROTECTION BAG (170x250x0.03)		C177,178			CE04DW1E470M	ELECTRO	47UF 25WV
-		*	H54-0714-03	ITEM CARTON CASE		C179,180			CC45FSL1H060D	CERAMIC	6.0PF D
A	3A		N09-4026-05	TAPPING SCREW (M4x8, TP,S)		C181,182			CF92FV1H473J	MF-C	0.047UF J
B	2A		N09-4102-05	SEMS (MACHINE SCREW)(M2.6x10)		C201,202			CK45FB1H122K	CERAMIC	1200PF K
C	3A		N15-1040-46	FLAT WASHER		C203,204			CE04DW1C100M	ELECTRO	10UF 16WV
D	2B		N87-3012-46	BRAZIER HEAD TAPTITE SCREW		C205,206			CC45FSL1H220J	CERAMIC	22PF J
E	1B		N89-3006-45	BINDING HEAD TAPTITE SCREW		C207,208			CC45FCH1H150J	CERAMIC	15PF J
F	2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		C209-212			CE04DW1C100M	ELECTRO	10UF 16WV
31	1A		N99-1587-05	SCREW SET		C215			CF92FV1H102J	MF-C	1000PF J
32	1A		W01-0745-05	ROUND TERMINAL SET (C.C.)	EM	C251-254			CF92FV1H223J	MF-C	0.022UF J
33	1A		W01-0748-05	TERMINAL COVER ASSY		C255			CF92FV1H473J	MF-C	0.047UF J
AUDIO UNIT (X09-5220-10)											
D7			B30-1460-05	LED (RED)		C256			CF92FV1H223J	MF-C	0.022UF J
C1			CE04DW1A470M	ELECTRO	47UF 10WV	C257			CF92FV1H473J	MF-C	0.047UF J
C2			CK45FF1H103Z	CERAMIC	0.010UF Z	C258			CE04DW1C100M	ELECTRO	10UF 16WV
C3			CE04DW1C100M	ELECTRO	10UF 16WV	C259-261			CC45FSL1H220J	CERAMIC	22PF J
C4			CF92FV1H102J	MF-C	1000PF J	C269,270			CK45FB1H681K	CERAMIC	680PF K
C5			C90-2689-05	ELECTRO	3300UF 16WV	C271,272			CE04DW1C100M	ELECTRO	10UF 16WV
C6			CF92FV1H222J	MF-C	2200PF J	C273,274			CC45FSL1H180J	CERAMIC	18PF J
C7 ,8			C90-1616-05	ELECTRO	3300UF 35WV	C275,276			CE04DW1A101M	ELECTRO	100UF 10WV
C9			CE04DW1H010M	ELECTRO	1.0UF 50WV	C277,278			CE04DW1E470M	ELECTRO	47UF 25WV
C30			CK45FB1H102K	CERAMIC	1000PF K	C279,280			CC45FSL1H060D	CERAMIC	6.0PF D
C31 -34			CE04DW1H4R7M	ELECTRO	4.7UF 50WV	C281,282			CF92FV1H473J	MF-C	0.047UF J
C35			CK45FB1H102K	CERAMIC	1000PF K	CN1 ,2			E40-3640-05		PIN ASSY (2P) (IDLE ADJ.)
C36			CE04DW1H010M	ELECTRO	1.0UF 50WV	J1			E63-0826-05		PHONO JACK (6P)
C37			CK45FB1H102K	CERAMIC	1000PF K	J2	2B		E70-0807-05		TERMINAL BOARD ASSY (3P) (CC)
C81 -84			CE04DW1E470M	ELECTRO	47UF 25WV	J3	2B		E70-0819-05		TERMINAL BOARD ASSY (8P)
C85 ,86			CE04DW1C220M	ELECTRO	22UF 16WV	J4	2B		E70-0821-05		TERMINAL BOARD ASSY (8P)
						J5			J13-0602-05		FUSE HOLDER (C.C.)
						L1			L33-1032-05		CHOKE COIL
						T1	*		L19-0556-05		DC/DC CONVERTER
						G	2B		N80-2008-45		PAN HEAD TAPTITE SCREW
						H	2B		N80-3010-45		PAN HEAD TAPTITE SCREW
						J	2B	*	N09-4214-08		SEMS (MACHINE SCREW) (J2,3)
						K	2B	*	N09-4216-08		SEMS (MACHINE SCREW) (J4)

E: Europe **K:** North America**W:** Without Europe**M:** Other Areas

⚠ indicates safety critical components.

KAC-646X

PARTS LIST

*New Parts

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Teile ohne **Parts No.** werden nicht geliefert.

(X09-5220-10)

Refer. No.	A d d e w	Parts No.	Description			Desti- nation	Refer. No.	A d d e w	Parts No.	Description			Desti- nation
R1 -4		RD14BB2C332J	RD	3.3K	J	1/6W	R163		RD14BB2C623J	RD	62K	J	1/6W
R5		RD14BB2C333J	RD	33K	J	1/6W	R164		RD14BB2C473J	RD	47K	J	1/6W
R6		RD14BB2C101J	RD	100	J	1/6W	R165,166		RD14BB2C182J	RD	1.8K	J	1/6W
R7		RD14BB2C222J	RD	2.2K	J	1/6W	R167,168		RD14BB2C472J	RD	4.7K	J	1/6W
R8		RD14BB2C473J	RD	47K	J	1/6W	R169		RD14BB2C752J	RD	7.5K	J	1/6W
R9		RD14DB2H122J	SMALL-RD	1.2K	J	1/2W	R171,172		RD14BB2C183J	RD	18K	J	1/6W
R10		RD14BB2C472J	RD	4.7K	J	1/6W	R173,174		RD14BB2C181J	RD	510	J	1/6W
R11		RD14BB2C684J	RD	680K	J	1/6W	R175,176		RD14BB2C182J	RD	1.8K	J	1/6W
R12,13		RD14BB2C273J	RD	27K	J	1/6W	R177,178		RD14BB2C561J	RD	560	J	1/6W
R14		RD14BB2C202J	RD	2.0K	J	1/6W	R179-182		RD14BB2C101J	RD	100	J	1/6W
R15		RD14BB2C272J	RD	2.7K	J	1/6W	R183,184		RD14BB2E221J	RD	220	J	1/4W
R16		RD14BB2C103J	RD	10K	J	1/6W	R185-188		RD14BB2C2R2J	RD	2.2	J	1/6W
R17		RD14BB2C682J	RD	6.8K	J	1/6W	R189-192		RS14KB3DR22J	FL-PROOF RS	0.22	J	2W
R18		RD14BB2C751J	RD	750	J	1/6W	R193,194		RD14BB2C751J	RD	750	J	1/6W
R19		RD14BB2C163J	RD	16K	J	1/6W	R195,196		RD14BB2E183J	RD	18K	J	1/4W
R20,21		RD14BB2E152J	RD	1.5K	J	1/4W	R197,198		RD14BB2E100J	RD	10	J	1/4W
R22,23		RD14BB2C152J	RD	1.5K	J	1/6W	R199		RD14BB2C102J	RD	1.0K	J	1/6W
R24,25		RD14BB2C101J	RD	100	J	1/6W	R201,202		RD14BB2C102J	RD	1.0K	J	1/6W
R26,27		RD14BB2C472J	RD	4.7K	J	1/6W	R203,204		RD14BB2C912J	RD	9.1K	J	1/6W
R28		RD14DB2H100J	SMALL-RD	10	J	1/2W	R205-208		RD14BB2C183J	RD	18K	J	1/6W
R29,30		RD14BB2C221J	RD	220	J	1/6W	R209-212		RD14BB2C332J	RD	3.3K	J	1/6W
R31-34		RD14BB2C682J	RD	6.8K	J	1/6W	R213-216		RD14BB2C362J	RD	3.6K	J	1/6W
R35-38		RD14BB2C271J	RD	270	J	1/6W	R217-220		RD14BB2C103J	RD	10K	J	1/6W
R39-42		RD14BB2C752J	RD	7.5K	J	1/6W	R221-224		RD14BB2C912J	RD	9.1K	J	1/6W
R43,44		RD14BB2C332J	RD	3.3K	J	1/6W	R225-228		RS14KB3D560J	FL-PROOF RS	56	J	2W
R45		RD14BB2C154J	RD	150K	J	1/6W	R229,230		RD14BB2C511J	RD	510	J	1/6W
R46,47		RD14BB2C223J	RD	22K	J	1/6W	R240		RD14BB2C102J	RD	1.0K	J	1/6W
R48		RD14BB2C154J	RD	150K	J	1/6W	R247,248		RD14BB2C271J	RD	270	J	1/6W
R49		RD14BB2C473J	RD	47K	J	1/6W	R249,250		RD14BB2C683J	RD	68K	J	1/6W
R50		RD14DB2H122J	SMALL-RD	1.2K	J	1/2W	R251,252		RD14BB2C273J	RD	27K	J	1/6W
R51		RD14BB2C751J	RD	750	J	1/6W	R253-256		RD14BB2C683J	RD	68K	J	1/6W
R52		RD14DB2H222J	SMALL-RD	2.2K	J	1/2W	R257,258		RD14BB2C433J	RD	43K	J	1/6W
R81-84		RD14BB2E391J	RD	390	J	1/4W	R259		RD14BB2C302J	RD	3.0K	J	1/6W
R85,86		RS14KB3D121J	FL-PROOF RS	120	J	2W	R260		RD14BB2C153J	RD	15K	J	1/6W
R101,102		RD14BB2C102J	RD	1.0K	J	1/6W	R261		RD14BB2C682J	RD	6.8K	J	1/6W
R103,104		RD14BB2C912J	RD	9.1K	J	1/6W	R262		RD14BB2C153J	RD	15K	J	1/6W
R105-108		RD14BB2C183J	RD	18K	J	1/6W	R263		RD14BB2C623J	RD	62K	J	1/6W
R109-112		RD14BB2C332J	RD	3.3K	J	1/6W	R264		RD14BB2C473J	RD	47K	J	1/6W
R113-116		RD14BB2C362J	RD	3.6K	J	1/6W	R265,266		RD14BB2C182J	RD	1.8K	J	1/6W
R117-120		RD14BB2C103J	RD	10K	J	1/6W	R267,268		RD14BB2C472J	RD	4.7K	J	1/6W
R121-124		RD14BB2C912J	RD	9.1K	J	1/6W	R269		RD14BB2C752J	RD	7.5K	J	1/6W
R125-128		RS14KB3D560J	FL-PROOF RS	56	J	2W	R271,272		RD14BB2C183J	RD	18K	J	1/6W
R129,130		RD14BB2C511J	RD	510	J	1/6W	R273,274		RD14BB2C511J	RD	510	J	1/6W
R140		RD14BB2C102J	RD	1.0K	J	1/6W	R275,276		RD14BB2C182J	RD	1.8K	J	1/6W
R141-144		RD14BB2C222J	RD	2.2K	J	1/6W	R277,278		RD14BB2C561J	RD	560	J	1/6W
R145,146		RD14BB2C473J	RD	47K	J	1/6W	R279-282		RD14BB2C101J	RD	100	J	1/6W
R147,148		RD14BB2C271J	RD	270	J	1/6W	R283,284		RD14BB2E221J	RD	220	J	1/4W
R149,150		RD14BB2C683J	RD	68K	J	1/6W	R285-288		RD14BB2C2R2J	RD	2.2	J	1/6W
R151,152		RD14BB2C273J	RD	27K	J	1/6W	R289-292		RS14KB3DR22J	FL-PROOF RS	0.22	J	2W
R153-156		RD14BB2C683J	RD	68K	J	1/6W	R293,294		RD14BB2C751J	RD	750	J	1/6W
R157,158		RD14BB2C433J	RD	43K	J	1/6W	R295,296		RD14BB2E183J	RD	18K	J	1/4W
R159		RD14BB2C302J	RD	3.0K	J	1/6W	R297,298		RD14BB2E100J	RD	10	J	1/4W
R160		RD14BB2C153J	RD	15K	J	1/6W	R299		RD14BB2C102J	RD	1.0K	J	1/6W
R161		RD14BB2C682J	RD	6.8K	J	1/6W	VR1,2		R31-0209-05		VARIABLE RESISTOR (5K)		

E: Europe K: North America M: Other Areas

W: Without Europe

 indicates safety critical components.

PARTS LIST

*New Parts

Parts without **Part No.**, are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

Refer. No.	Add'd	New	Parts No.	Description	Desti-nation
VR3 -6			R12-0606-05	TRIMMING POT. (330)	
S1 ,2			S62-0842-05	SLIDE SWITCH	
S3 ,4			S31-2630-05	SLIDE SWITCH	
S5			S62-0842-05	SLIDE SWITCH	
D1			RD7.5JS(B)	ZENER DIODE	
D2 -4			MA165	DIODE	
D5			RD10JS(B)	ZENER DIODE	
D6			MA165	DIODE	
D10			RM4ZLF-J1	DIODE	
D11 ,12			MA165	DIODE	
D13			FMU22S*A	DIODE	
D14			FMU22R*A	DIODE	
D15 -18			RD20JS(B)	ZENER DIODE	
D19 -22			RD7.5JS(B)	ZENER DIODE	
D23 -26			MA165	DIODE	
D27			RD15JS(B)	ZENER DIODE	
D28			RD5.1JS(B)	ZENER DIODE	
D101-104			MA165	DIODE	
D111-114			E-562	CONSTANT CURRENT DIODE	
D201-204			MA165	DIODE	
D211-214			E-562	CONSTANT CURRENT DIODE	
IC1 -4			UPC4574C	IC(OP AMP X4)	
IC5 ,6			M5219P	IC(OP AMP X2)	
IC7			UPC494C	IC(SWITCHING REGULATOR)	
Q1			2SC945(A)(Q,P)	TRANSISTOR	
Q2			2SA733(A)(Q,P)	TRANSISTOR	
Q3			2SC945(A)(Q,P)	TRANSISTOR	
Q4			2SA733(A)(Q,P)	TRANSISTOR	
Q5 ,6			2SC945(A)(Q,P)	TRANSISTOR	
Q7 ,8	*		MTAJ50N05HDLFK	FET	
Q9 -12			2SC945(A)(Q,P)	TRANSISTOR	
Q13 ,14			2SA733(A)(Q,P)	TRANSISTOR	
Q15			2SC945(A)(Q,P)	TRANSISTOR	
Q101,102			2SC945(A)(Q)	TRANSISTOR	
Q103,104			2SC1627A	TRANSISTOR	
Q105,106			2SA817A	TRANSISTOR	
Q107,108			2SC4511*B	TRANSISTOR	
Q109,110			2SA1725*B	TRANSISTOR	
Q111,112			2SC945(A)(Q,P)	TRANSISTOR	
Q201,202			2SC945(A)(Q)	TRANSISTOR	
Q203,204			2SC1627A	TRANSISTOR	
Q205,206			2SA817A	TRANSISTOR	
Q207,208			2SC4511*B	TRANSISTOR	
Q209,210			2SA1725*B	TRANSISTOR	
Q211,212			2SC945(A)(Q,P)	TRANSISTOR	
TH1			ERT-D2ZHL103S	THERMISTOR	

Refer. No.	Add	New	Parts No.	Description	Destination

E: Europe **K:** North America

M: Other Areas

W: Without Europe

 indicates safety critical components.

KAC-646X

SPECIFICATIONS

Specifications subject to change without notice.

Audio Section

Max Power Output (4 Ω)

4 Channel Mode	50 W × 4
3 Channel Mode	50 W × 2 + 140 W × 1
2 Channel Mode	140 W × 2

Rated Power Output (4 Ω)

4 Channel Mode	25 W × 4 (20 Hz ~ 20 kHz, less than 0.08 % THD)
3 Channel Mode	25 W × 2 (1 kHz, 0.08 % THD) + 70 W × 1 (1 kHz, 0.8 % THD)
2 Channel Mode	70 W × 2 (1 kHz, 0.8 % THD)

Rated Power Output (2 Ω)

4 Channel Mode	35 W × 4 (1 kHz, 0.8 % THD)
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Frequency Response	10 Hz ~ 45 kHz (+0, -1 dB)
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Signal to Noise Ratio	100 dB
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Sensitivity (MAX)	0.2 V (rated output)
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Sensitivity (MIN)	4.0 V (rated output)
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Input Impedance	10 kΩ
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Low Pass Filter	80 Hz (12 dB/oct.)
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High Pass Filter	150 Hz (12 dB/oct.)
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General

Operating Voltage	14.4 V (11 ~ 16 V allowable)
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Current Consumption (1 kHz, 10% THD)	22 A
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Dimensions (W × H × D)	260×52×209 mm (10-1/4×2-1/16×8-1/4 in.)
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Weight	2.5 kg (5.5 lb)
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